

PERMIT APPLICATION NUMBER: NRS#04.401

APPLICANT: Town of Tracy City
Office of the Mayor, Town Hall
Tracy City, Tennessee 37387
(931) 592-6213

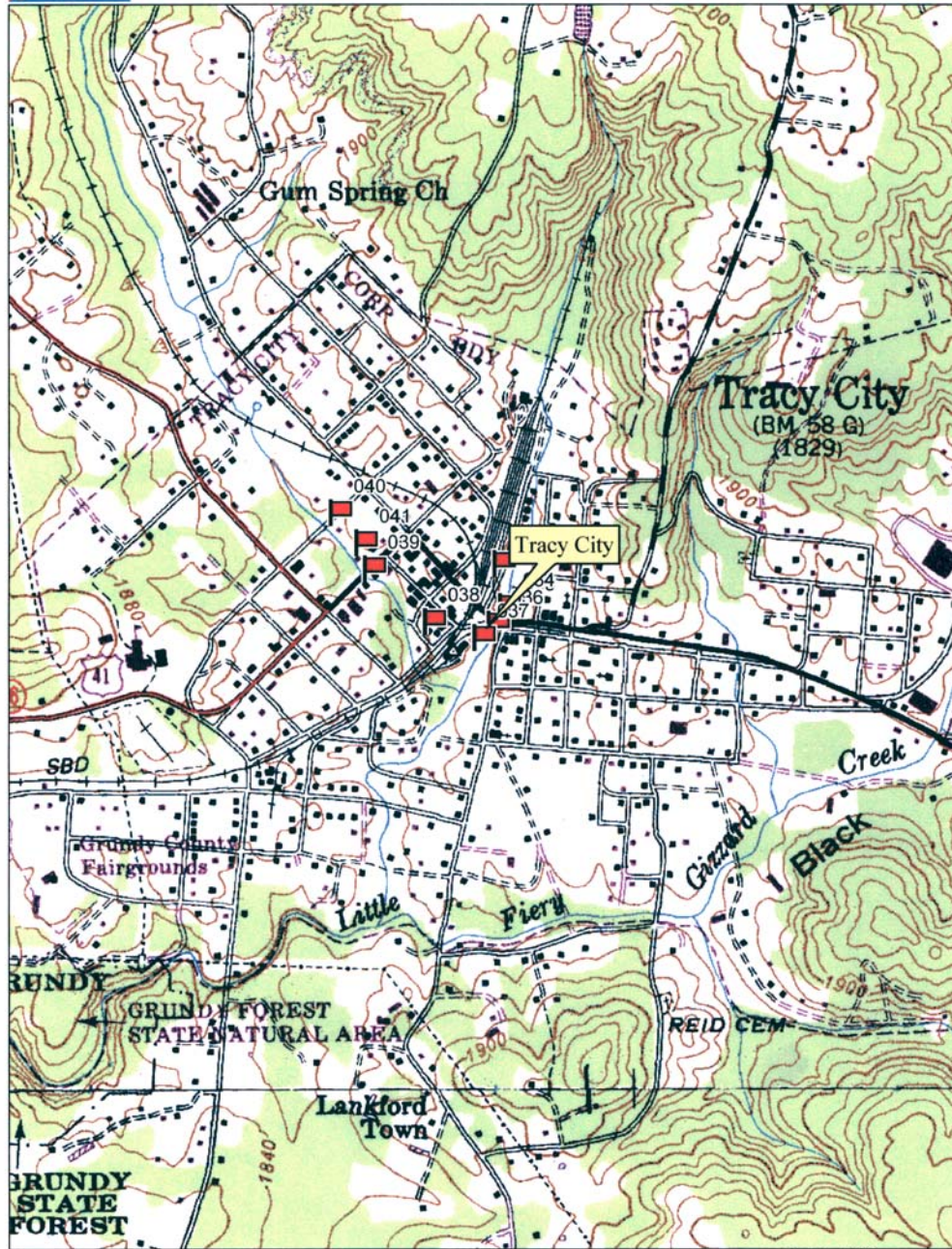
LOCATION: The proposed project is located on Unnamed Tributaries of Little Fiery Gizzard Creek, Grundy County, Tennessee.

WATERSHED DESCRIPTION: Little Fiery Gizzard Creek is located in the Gunterville Reservoir Watershed (HUC TN06030001). Only 16 percent of the watershed is in Tennessee with the remainder in Alabama. This is a rural area with small farms and mining. Data was only available to assess 33 percent of the streams in the watershed. However, 94 percent of the surveyed streams were fully supporting. Pathogens and siltation were the primary pollutants. Gunterville Reservoir is fully supporting. The substrate of Little Fiery Gizzard Creek and its unnamed tributaries is generally a combination of dirt, rock and gravel.

DESCRIPTION: The proposed project consists of eight crossings of unnamed tributaries of Little Fiery Gizzard Creek and approximately 5150 linear feet of 8" gravity sewer line.

PERMIT COORDINATOR: Dorsey Horne, STATE OF TENNESSEE, Department of Environment and Conservation, Division of Water Pollution Control, 7th Floor, L & C Annex, 401 Church Street, Nashville, Tennessee 37243-1534

USGS QUAD: TRACY CITY 99-SW



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Scale 1 : 12,800
1" = 1,066.7 ft Data Zoom 13-0

ATTACHMENT NO. 1
Town of Tracy City, Grundy County, Tennessee
8" PVC Gravity Sewer Line
404(e)/ARAP APPLICATION

Map Location	Stream	Mile	Line Size (in)	Bottom Material	Streamside Vegetation	Water Crossing Width	Depth	GPS Coordinates	Cross Type	Adjacent Property Owner
Town of Tracy City										
034	Un-named tributary to Little Flery Gizzard Creek	0.61	8"	Gs	Gs	4'	0'	N 35 ° 16.635' / W 85 ° 44.141'	D	Campbell 105/181
035	Un-named tributary to Little Flery Gizzard Creek	0.64	8"	Gs	Gs, Smt	4'	0'	N 35 ° 15.693' / W 85 ° 44.150'	D	Grundy Co. Board of Education
036	Un-named tributary to Little Flery Gizzard Creek	0.57	8"	D, R, Gs	Gs, D	10'	0'	N 35 ° 15.612' / W 85 ° 44.160'	D	Tracy City Boy Scouts
037	Un-named tributary to Little Flery Gizzard Creek	0.51	8"	D, R, Gs	Gs, D	10'	0'	N 35 ° 15.594' / W 85 ° 44.183'	D	Tracy City Boy Scouts
038	Un-named tributary to Little Flery Gizzard Creek	0.55	8"	D, R, Gs	Gs, D, Smt	10'	0'	N 35 ° 15.615' / W 85 ° 44.284'	D	First National Bank
039	Un-named tributary to Little Flery Gizzard Creek	0.64	8"	D, R, Gv	Gs, D, Smt	10'	0'	N 35 ° 15.686' / W 85 ° 44.382'	D	Grundy County Highway Department
040	Un-named tributary to Little Flery Gizzard Creek	0.74	8"	D, R, Gv	Gs, D, Smt	10'	0'	N 35 ° 15.781' / W 85 ° 44.418'	D	Griffith 122/79
041	Un-named tributary to Little Flery Gizzard Creek	0.66	8"	D, R, Gv	Gs, D, Smt	10'	0'	N 35 ° 15.721' / W 85 ° 44.377'	D	Grundy County Highway Department

Notes:

- (1) Map Location Points are random and may or may not be consecutive due to GPS spot locations
 - (2) See Crossing Key Attached
- D=Dirt
R=Rock
Gs=Grass
Gv=Gravel
Smt=Small Trees

5150'

CROSSING KEY FOR ATTACHMENT NO. 1

D— Crossing will be made when the stream is dry. If rock is present in the stream bottom, a track drill will be used to drill into the rock. Controlled blasting will be used to break the rock. The trench will be excavated and the water line will be laid with a track hoe. Removed material will be disposed of upland. If rock is not present, the construction technique will be similar except there will be no drilling and blasting. Contractor must comply with all conditions of the permit.

WW — Crossing will be made by construction of a 12' wide temporary construction road across the stream using 3-6-inch stone. The rock will be dumped at the stream's edge and pushed across the stream by a hoe or excavator situated on top of the temporary roadway. Once the roadway is completed, construction of the water line will proceed as follows. If rock is present in the stream bottom, a track drill will be used to drill through the temporary roadway into the rock. Controlled blasting will be used to break the rock. A track hoe will be used to excavate through the roadway into the stream bottom. As the excavation is made, the water line will be laid and the removed material, both temporary roadway and stream bottom, will be disposed of upland. If rock is not present, the construction technique will be similar except there will be no drilling and/or blasting. Contractor must comply with all conditions of the permit.

WN — Stream will be sandbagged and temporary culvert(s) installed to by-pass stream flow downstream of the crossing until crossing is complete. Crossing will be made keeping construction equipment on the banks of the stream. If rock is present in the stream bottom, a track drill placed on the stream bank will be used to drill into the rock. Controlled blasting will be used to break the rock. As the trench is excavated and the water line is laid with the track hoe, removed material will be disposed of upland. If rock is not present, the construction technique will be similar except there will be no drilling and blasting. Contractor must comply with all conditions of the permit.

**Attachment No. 2
ARAP/COE Application
Town of Tracy City, Grundy County, Tennessee**

**Eight Crossings of an un-named tributary of the Little Fiery Gizzard River
for new 8" Gravity Sanitary Sewer Transmission Lines**

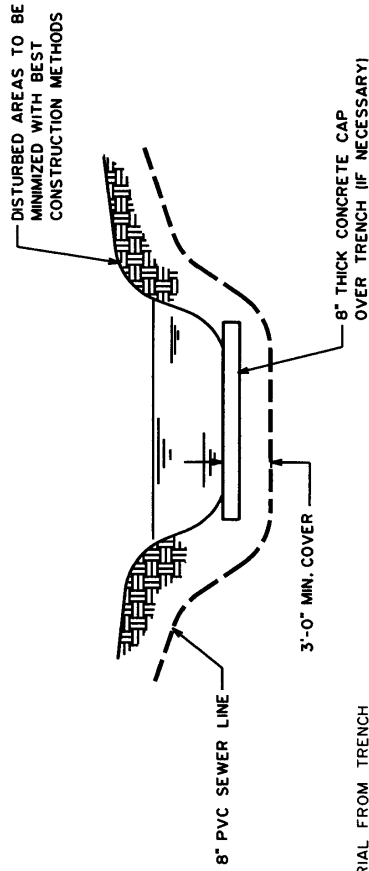
The purpose of this project is to improve the Sanitary Sewer transmission system serving the customers of the Town of Tracy City in Grundy County. The attached drawings outline the proposed construction.

The line sizes at the point of crossings are as outlined on Attachment No. 1. Also, Attachment No. 1 outlines the map location number, stream name, mile point of crossing, stream bottom material, streamside vegetation present, crossing water width and average water depth, crossing type (dry or wet and method), and adjacent property owners. It is anticipated that the crossings can be made without removal of any trees larger than 4-6-inches in diameter.

Not more than 1.0 yd³ of material per linear foot of pipeline will be removed from the stream bottom. Total area disturbed in the floodway will be approximately 20ft² per linear foot of crossing width.

The 8" PVC pipe will be laid in a crushed stone envelope and covered with native stone. The crossing will be protected with a concrete cap in the stream bottom and riprap up the banks if necessary. All material removed from the trench and any other material used during construction will be removed from the stream and disposed of upland.

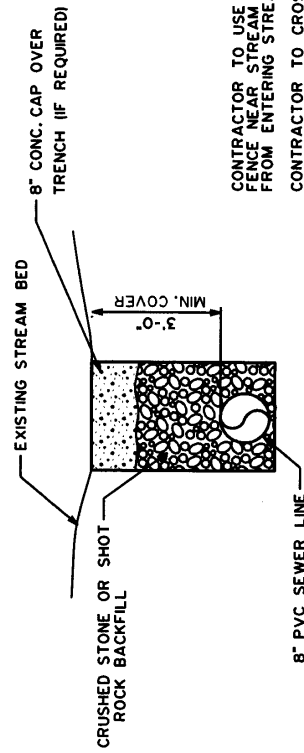
TOWN OF TRACY CITY SANITARY SEWER LINE ADDITIONS



NOTE:
ALL EXCAVATION MATERIAL FROM TRENCH
TO BE DISPOSED OF OFFSITE

STREAM CROSSING SECTION

N.T.S.



CONTRACTOR TO USE STRAW BALES AND SILT
FENCE NEARBY TO PREVENT SILTATION
FROM ENTERING STREAM.

CONTRACTOR TO CROSS WET WEATHER
CONVEYANCES DURING DRY TIMES AS MUCH
AS POSSIBLE.

STREAM CROSSING

N.T.S.

JCH PROJECT #95107